

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original): An implant for treating biological tissue comprising:
therapeutic material associated with a scaffold structure that is implantable within tissue.
2. (original): A tissue implant as defined in claim 1 wherein the scaffold further comprises an interior defining a chamber and at least one opening to the interior, wherein the therapeutic material is associated with the interior of the scaffold.
3. (original): A tissue implant as defined in claim 1 wherein the scaffold defines an exterior surface and the therapeutic material is associated with the exterior surface.
4. (original): A tissue implant as defined in claim 1 wherein the scaffold structure is porous and a therapeutic material is associated within the pores of the structure.
5. (original): A tissue implant as defined in claim 1 wherein the therapeutic material defines a plurality of cells.
6. (original): A tissue implant as defined in claim 1 wherein the therapeutic material defines tissue.
7. (original): A tissue implant as defined in claim 1 wherein the therapeutic material comprises precursor cells.
8. (original): A tissue implant as defined in claim 1 wherein the therapeutic material comprises stem cells.

9. (original): A tissue implant as defined in claim 1 wherein the therapeutic material comprises a cardiomyocyte.

10. (original): A tissue implant as defined in claim 1 wherein the therapeutic material comprises DNA.

11. (original): A tissue implant as defined in claim 1 wherein the therapeutic material comprises skeletal myoblasts.

12. (original): A tissue implant as defined in claim 1 wherein the therapeutic material is joined to the scaffold structure by surgical adhesive.

13. (original): A tissue implant as defined in claim 1 wherein the therapeutic material is applied as a coating to the scaffold structure.

14. (original): A tissue implant as defined in claim 12 wherein the coating is adhered to the scaffold structure by opposite electrical charges.

15. (original): A tissue implant as defined in claim 1 wherein the therapeutic material is maintained in a gel form that is associated with the scaffold.

16. (original): A tissue implant as defined in claim 1 wherein the therapeutic material is suspended in a liquid that is applied to the scaffold after it has been implanted in tissue.

17. (original): A tissue implant as defined in claim 1 wherein the scaffold further comprises a coil body.

18. (original): A tissue implant device as defined in claim 1 wherein the scaffold further comprises a mesh tube

19. (original): A tissue implant as defined in claim 1 wherein the scaffold structure further comprises a porous pellet.

20. (original): A tissue implant as defined in claim 1 wherein the scaffold structure comprises a surgical grade stainless steel.

21. (original): A tissue implant as defined in claim 1 wherein the scaffold structure comprises a nickel titanium alloy.

22. (original): A tissue implant as defined in claim 1 wherein the scaffold structure comprises a biodegradable polymer.

23. (original): A myocardial implant comprising:
an angiogenic implant device having associated with it a therapeutic material configured to improve cardiac muscle function.

24. (original): A method of treating dysfunctional muscle tissue comprising:
providing therapeutic material configured to improve muscular function;
providing a angiogenic implant;
associating the therapeutic material with the angiogenic implant; and
implanting the angiogenic implant and therapeutic material in combination in dysfunctional tissue

25. (original): A method of treating dysfunctional muscle tissue as defined in claim 24 wherein the muscle tissue is myocardial tissue of the heart.

26. (original): A method of treating dysfunctional muscle tissue as defined in claim 25 wherein the heart is accessed surgically and the implant is delivered through the epicardium of the heart.

27. (original): A method of treating dysfunctional muscle tissue as defined in claim 25 wherein the heart is accessed percutaneously and the implant is delivered through the endocardium of the heart.

28. (cancelled)

29. (cancelled).

30. (cancelled)

31. (cancelled)

32. (original): A method of sustaining transplanted cells and host tissue comprising:

placing a mechanical implant at the transplant site to promote localized angiogenesis in the tissue to supply blood to the cells.

33. (cancelled)